

Department of Commerce \$ National Oceanic & Atmospheric Administration \$ National Weather Service

NATIONAL WEATHER SERVICE SOUTHERN REGION SUPPLEMENT 11-2005

APPLICABLE TO NWSI 10-924

November 30, 2005

Hydrologic Services Program, NWSPD 10-9

Weather Forecast Office Hydrologic Reporting, NWSI 10-924

HYDROLOGIC REPORTING EXAMPLES

NOTICE: This publication is available at: <http://www.nws.noaa.gov/directives/>.

OPR: W/SR12x1 (K. Boyd)

Certified by: W/SR1 (Judson Ladd)

Type of Issuance: Initial

SUMMARY OF REVISIONS:

Signed by Steven Cooper for Bill Proenza (11/9/05)

Bill Proenza

Date

Director, Southern Region

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1. PURPOSE

The purpose of this supplement is to provide regional procedures regarding the submission of WFO hydrologic administrative reports. Preparation and submission of these reports are the responsibility of the Weather Forecast Office (WFO) Meteorologist-in-Charge (MIC), who may delegate authority to prepare these reports to the local service hydrologist or hydrologic focal point. For WFOs without a Service Hydrologist, the Service Hydrologist tasked with providing hydrology program management support should provide hydrologic guidance in preparing these reports. These reports support NWS operations and management of the Hydrologic Services Program.

2. WEATHER SERVICE (WS) FORM E-19

WS Form E-19 should be submitted at least every 5 years for each river station used to provide hydrologic forecast services. This includes traditional river forecast points (forecast guidance provided by the RFCs) and local WFO river forecast points (forecasts generated by the WFO using a site-specific hydrologic model) as defined in SR Supplement 01-05. The history of the gage station should be included in the report. The E-19 form should be updated when there has been significant changes to the hydrologic information at the river station (e.g., updates to flood category/impact information and other hydrologic information are required due to a series of major/record floods, or a request for new hydrologic forecast services has been approved). E-19s should be submitted to the Hydrologic Services Branch (HSB), servicing River Forecast Center (RFC), back-up office(s), Hydrologic Information Center (HIC), and supporting service hydrologist, as appropriate. Where feasible, pictures should also be included in the document. All pictures should be clearly labeled and include: the date and time the photograph was taken, the reach of the river, the gage height, and the view of the picture (upstream, downstream, etc.). A sample of WS Form E-19 is provided in Appendix A.

WS Form E-19a should be used to update the basic station information that is included in WS Form E-19. Updates can include, but are not limited to: establishment of a new river station (update within 60 days), discontinuance of a river stage reporting station (update within 30 days), and changes to flood categories and river gage datum (update within 30 days). The WS Form E-19a should be on file for all river gaging stations used by the NWS. WS Form E-19a should be submitted to the HSB, servicing RFC, backup office(s), HIC, and supporting service hydrologist, as appropriate.

Intranet/internet web pages (e.g. AHPS web pages), and Hydrologic Service Manuals should be updated to reflect current hydrologic database/E-19 information.

3. WEATHER SERVICE FORM E-5

WS Form E-5 should be used to prepare a monthly report of river and flood conditions for a Hydrologic Service Area (HSA). This form should include information that is described in NWS Instruction 10-924, Sections 3.1.1 and 3.1.2. Where feasible, pictures should also be included at the end of the document. All pictures should be clearly labeled and include: the date and time the photograph was taken, the reach of the river, the gage height, and the view of the picture (upstream, downstream, etc.).

Reports should be submitted to the HSB, servicing RFC, HIC, supporting service hydrologist (where appropriate), and all backup offices. Based on local agreements, this report may also be sent to external partners and customers. Monthly reports will be submitted by the 15th of the following month. When the 15th of the month falls on a weekend or a holiday, the report will be due the following business day. Examples of WS Form E-5 are provided in Appendix B.

4. WEATHER SERVICE FORM E-3

WS Form E-3 should be prepared whenever a river reaches or exceeds flood stage. All reports should include detailed hydrologic information about the flood event, including the river/ station name, SID, start and end date of the flood, and date of the crest. Additional details about the content of this form are contained in NWS Instruction 10-924, Sections 3.2.

Reports should be submitted to the HSB, servicing RFC, HIC, supporting service hydrologist (where appropriate), and all backup offices. Based on local agreements, this report may also be sent to external partners and customers. Monthly reports will be submitted by the 15th of the month. When the 15th of the month falls on a weekend or a holiday, the report will be due the following business day. Examples of WS Form E-3 are provided in Appendix C.

5. MONTHLY HYDROLOGIC ACTIVITIES REPORT

The Monthly Hydrologic Activities Report should include a summary of hydrologic activities for the past month. This report should be written in memorandum format and should include, but not be limited to, the following: hydrologic outreach activities, collaborative hydrologic activities with surrounding WFOs and/or servicing RFCs, hydrologic trips to gaging sites, and the number of operational shifts worked during the month (if applicable).

WFO reports should be submitted to the HSB, servicing RFC, HIC, supporting service hydrologist (where appropriate), and all backup offices. Based on local agreements, this report may also be sent to external partners and customers. WFOs will submit this report by the 15th of the month. When the 15th of the month falls on a weekend or a holiday, the report will be due the following business day. A sample of the Hydrologic Activities Report is contained in Appendix D.

Appendix A - Weather Service Form E-19

NWS FORM E-19 (COVER)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 10/20/1993, 02/04/2000

LOCATION: Celina

STREAM: Cumberland River

BASIN: Cumberland

HSA: OHX

REFERENCES:

USGS description of gaging station

ABBREVIATIONS:

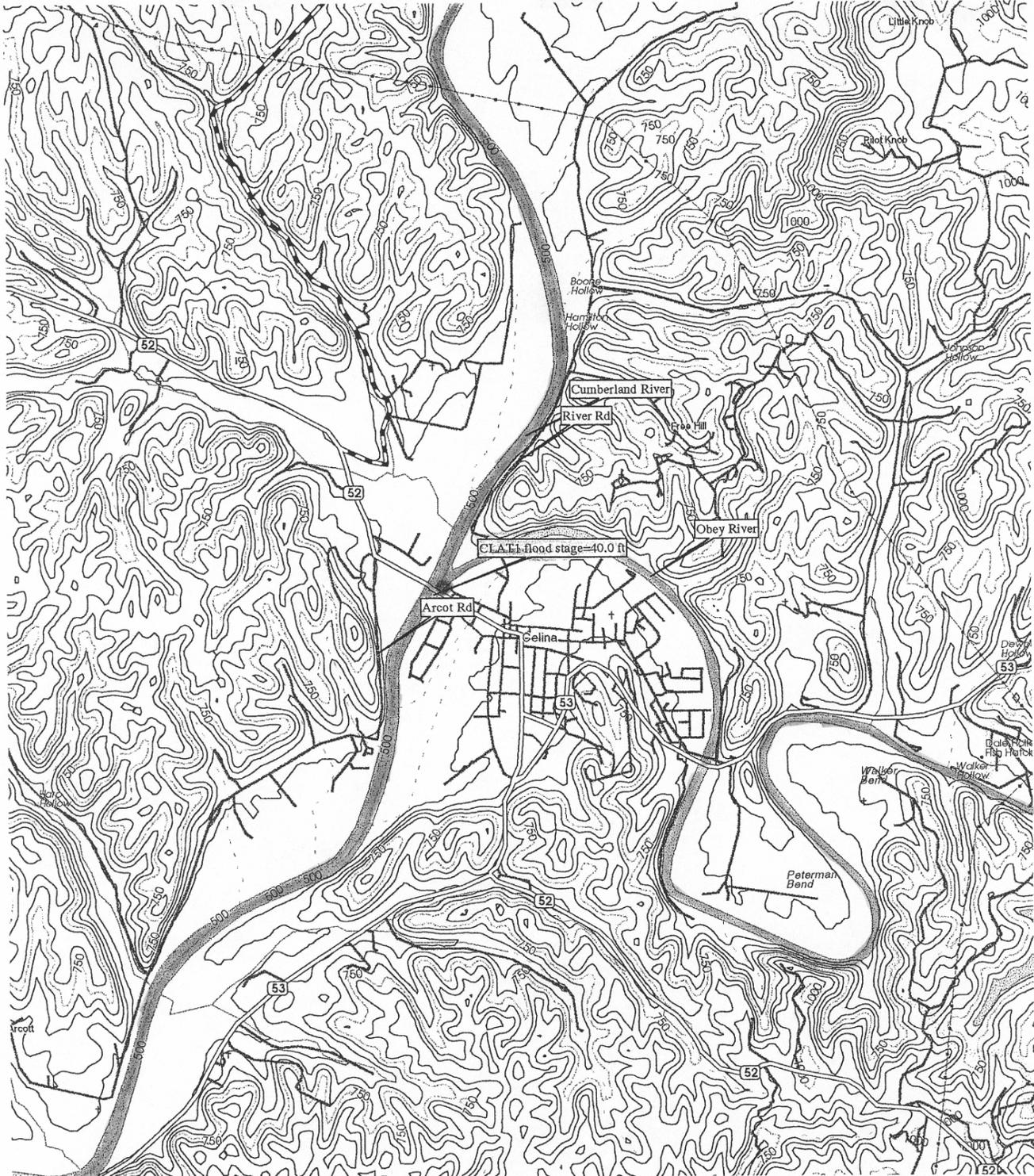
BM	- bench mark	EPA	- Environmental Protection Agency
DS	- downstream	IBWC	- International Boundary and Water Comm.
US	- upstream	MSRC	- Mississippi River Commission
HW	- high water	MORC	- Missouri River Commission
LW	- low water	NOAA	- National Oceanic and Atmospheric Admin.
RB	- right bank	NOS	- National Ocean Survey
LB	- left bank	NWS	- National Weather Service
MGL	- mean gulf level	TVA	- Tennessee Valley Authority
MLW	- mean low water	USACE	- U.S. Army Corps of Engineers
MSL	- mean sea level	USBR	- U.S. Bureau of Reclamation
MLT	- mean low tide	USGS	- U.S. Geological Survey
MT	- mean tide	USWB	- U.S. Weather Bureau
WQ	- water quality	NGVD	- National Geodetic Vertical Datum
RM	- reference mark	NAD	- North American Datum
RP	- reference point		

LOCATION IDENTIFICATION: CLAT1
NWS INDEX NUMBER: 40-1562-3
USGS NUMBER: 03417500

MAP OF GAGE LOCATION

LATITUDE: 36 33 00
LONGITUDE: 85 31 00

SOURCE: USGS



LOCATION: Cumberland River at Celina

ID: CLAT1

HSA: OHX

Revised, Printed Dates: 10/20/1993, 02/04/2000

NWS FORM E-19 PAGE 1: GAGE MAP

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BENCHMARKS

ELEVATION OF GAGE ZERO: 489.000

VERTICAL DATUM: NGVD OF 1929

LEVELING AGENCY AND DATE: Level
RATING AGENCY:

CHECKBAR: 30.290

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
RM 6	A standard USGS benchmark tablet stamped B-82 1935 set in the top of the downstream end of the left abutment of the bridge	63.390	552.390
RM 7	A standard USGS benchmark tablet stamped B-82 1935 set in the top of the downstream end of the left abutment bridge	94.310	583.310
RM 8	The top of the concrete spill on the hand strirrup on the right side of the downstream post of the gage pier	67.190	556.190
RM 9	A lag bolt 2 feet above ground in the streamward side of a sycamore tree 5 feet behind and streamward of the gage house	49.762	538.762

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GAGES

DCP

TELEM

NESS ID: CE56A874
 OWNER: USACE
 REPORT TIME: 01:50:00
 INTERVAL: 240
 CRITERIA:

TYPE OF TELEMETRY: modem
 OWNER: USACE
 PHONE NUMBER: 931-243-3140
 INTERVAL: UNK
 CRITERIA:
 PAYOR/COST OF LINE: USACE / \$

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
staff gage	USACE	USACE	12/01/1903	10/01/1930	On the old steamboat landing
recorder	USACE	USACE	01/01/1937		HWY 52 at Henry Horton Bridge
recorder	USGS	USGS	07/01/1987		Right bank of the downstream side on Henry Horton Bridge on HWY 52.. 0.5 miles northwest of the courthouse at Celina

HISTORY

PUBLICATION/LOCATION OF RECORDS -----	STARTING DATE -----	ENDING DATE -----
NWS	12/01/1903	11/27/1930
USGS	10/27/1930	08/11/1953
USGS	08/11/1953	

TYPE OF GAGE -----	OWNER -----	STARTING DATE -----	ENDING DATE -----
staff gage	USACE	12/01/1903	10/01/1930
recorder	USACE	01/01/1937	
recorder	USGS	07/01/1987	

ZERO ELEVATION -----	STARTING DATE -----
489.460	12/01/1903
487.460	10/27/1930
489.000	08/11/1953

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CRESTS

FLOOD STAGE: 40.00 ACTION STAGE: 35.00 BANKFULL STAGE: 40.00
 FLOOD FLOW: 0

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
03/01/1826	UNDEF	61.30				X	
03/01/1902	UNDEF	54.50					
02/01/1918	UNDEF	57.30					
12/29/1926	UNDEF	59.35					
03/27/1929	UNDEF	54.80					
01/23/1937	UNDEF	53.83					
01/02/1943	UNDEF	52.02					
01/12/1946	UNDEF	54.09					
02/17/1948	UNDEF	52.01					
02/05/1950	UNDEF	52.46					
03/28/1980	UNDEF	25.18					
01/23/1982	UNDEF	22.86					
05/19/1983	UNDEF	28.32					
05/07/1984	UNDEF	35.35					
11/28/1985	UNDEF	21.06					
02/18/1986	UNDEF	19.66					
12/09/1987	UNDEF	23.86					
01/20/1988	UNDEF	18.50					
03/06/1989	UNDEF	32.65					
10/17/1990	UNDEF	26.22					
12/31/1991	UNDEF	22.64					

LOCATION: Cumberland River at Celina
 ID: CLAT1

HSA: OHX

Revised, Printed Dates: 10/20/1993, 02/04/2000
 NWS FORM E-19 PAGE 5: CRESTS

LOW WATER RECORDS

DATE OF LOW WATER -----	STAGE (ft) -----	FLOW (CFS) -----	REMARKS -----
09/02/1925	2.21		recalculated to present datum

CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH: 380.8 DRAINAGE AREA: 7307.0 POOL STAGE: 0.0

STREAM BED: coarse gravel and rock

REACH: Celina

REGULATION: Flow is regulated by flood storage and power operations at
Wolf Creek Dam and Dale Hollow Dam

DIVERSION:

WINTER: some ice during extreme winters

TOPOGRAPHY: The area on either side of the river is nearly level. The
banks are moderately high and not rocky. Away from the
river..are rolling hills on both sides.

REMARKS:

DAMAGE

STAGE AREAS AFFECTED

40.00 Flood water will reach a broad depression and will run through the cutoff.

45.00 Flood waters will reach low-lying areas of town near the river.

50.00 Flood waters reach town near the courthouse and business sections.

RIVER STAGE DATA

50.00 - Flood waters reach town near the courthouse and business sections.

45.00 - Flood waters will reach low-lying areas of town near the river.

40.00 - Flood water will reach a broad depression and will run through the cutoff.

61.30	03/01/1826
59.35	12/29/1926
57.30	02/01/1918
54.80	03/27/1929
54.50	03/01/1902
54.09	01/12/1946
53.83	01/23/1937
52.46	02/05/1950
52.02	01/02/1943
52.01	02/17/1948
46-	
40-	
35.35	05/07/1984
34-	
32.65	03/06/1989
28-	
28.32	05/19/1983
26.22	10/17/1990
25.18	03/28/1980
22-	
23.86	12/09/1987
22.86	01/23/1982
22.64	12/31/1991
21.06	11/28/1985
19.66	02/18/1986
18.50	01/20/1988

REACH: Celina

ELEVATION ZERO: 489.00

LOCATION: Cumberland River at Celina

Revised, Printed Dates: 10/20/1993, 02/04/2000

ID: CLAT1

HSA: OHX

NWS FORM E-19 PAGE 9: STAFF

CONTACTS

CONTACT/REMARKS

PHONE

Celina PD

615-243-2115

Appendix B - Weather Service Form E-19a

U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL WEATHER SERVICE

NWS-FORM E-19A

REPORT ON RIVER GAGE STATION

----- SITE -----

LID: ACMN5	PROXIMITY: BELOW	
NAME: ACME		
STREAM: PECOS RIVER		
COUNTY/STATE: Chaves, NM	BASIN: PECOS	
DRAINAGE: 11380.00	FLOOD STAGE: 13.00	STATION NO:
RIVER MILE: 585.30	ACTION STAGE: 12.00	USGS NO: 08386000
ZERO DATUM: 3507.000	BANKFULL STAGE: 10.00	NESS ID: CE1A61F8
CHECKBAR:	NORMAL POOL:	RFC: WGRFC
LATITUDE: 33 32 10	TIDAL EFFECTS: None	HSA: ABQ
LONGITUDE: 104 22 34	FLOODCATS: MAJOR: 16.00	
	MODERATE: 14.50	
	MINOR: 13.00	
PERIOD OF RECORD: 10/01/1921 -		

----- OBSERVER -----

SERVICE DATE:	SPONSOR:
CD-404:	RATE: \$
HOME PHONE:	
WORK PHONE:	

EMAIL:	
DUTIES:	
RECIPIENT:	COMMS TYPE: TASK:

----- GAGES -----

TELEM TYPE:	TELEM OWNER:	PHONE:
DCP ID: CE1A61F8	DCP OWNER: COE	
LATEST GAGE TYPE	START DATE	OWNER OF GAGE
Unk	11/02/1938	USGS

----- CRESTS -----

	LEVEL	DATE
HIGHEST BASED ON GAGE READING:	14.89	10/07/1954
HIGHEST BASED ON HIGH WATERMARKS:		
HIGHEST SINCE 1/01/1995:	8.84	05/01/1999
HIGHEST SINCE 1/01/2005:		

----- REMARKS -----

3 MI DOWN STREAM FM U.S. HWY 70. 14 MI NE OF ROSWELL. FLOOD OF 10/1/1904 MAY HAVE EXCEEDED THAT OF 1937.

HYDROLOGIST: ED POLASKO

REVISED, PRINTED DATES: 08/11/2005, 08/11/2005

Appendix C - Weather Service Form E-5

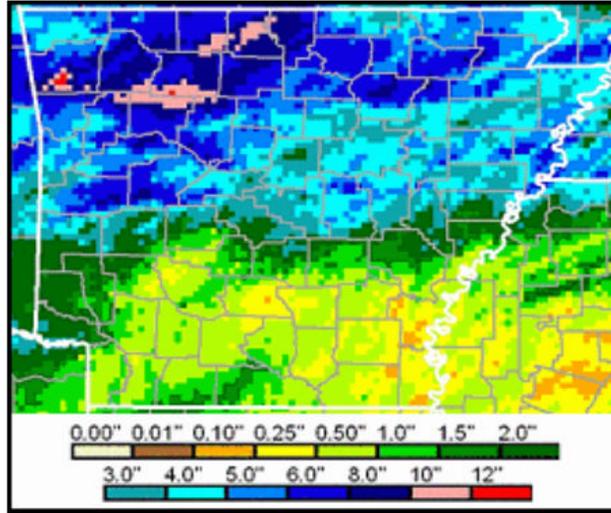
<p>NWS FORM E-5 (11-88) <small>(PREP. BY NWS Instruction 10-92-4)</small></p>	<p>U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE</p>	<p>HYDROLOGIC SERVICE AREA (HSA) WFO Nashville</p>
<p>MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS</p>		<p>REPORT FOR: MONTH YEAR June 2005</p>
<p>TO: Hydrometeorological Information Center, WFOH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283</p>	<p>SIGNATURE: M. Murphy for: Larry Vannozi Meteorologist-in-Charge</p>	
		<p>DATE: July 5, 2005</p>
<p><input checked="" type="checkbox"/> <i>no flood stages were reached in the HSA during this month</i></p>		
<p>At the end of May, Middle Tennessee was experiencing a significant rainfall deficit. Water levels on area rivers and streams were also below normal. Fortunately, June began with a much needed rain event. On the 1st and 2nd a persistent upper level low positioned over Northern Mississippi provided two days of intermittent rain. Rainfall totals from the system were between 2 and 3 inches across southwest Middle Tennessee. Amounts dropped off to less than one half inch along the Kentucky and Tennessee border.</p>		
<p>By the end of the first week of June, a summer-like weather pattern had set up bringing a noticeable increase in heat and humidity. With a moist atmosphere in place, an upper level disturbance moved over the region on the 6th of June resulting in widespread showers along with isolated strong to severe thunderstorms. Rainfall amounts varied with a few locations receiving between 2 and 3 inches while others received less than one tenth of an inch. Most of Middle Tennessee received at least one half inch of rainfall.</p>		
<p>A somewhat unusual event occurred on Sunday, June 12th. Tropical Storm Arlene moved north from the Gulf of Mexico through western Alabama and entered Wayne County in Middle Tennessee. The path of T.S. Arlene was well forecasted therefore WFO Nashville was expecting a significant rain event. On Friday the 10th of June, a Hydrologic Outlook was issued to inform the public of the possibility of heavy rain and flooding. The Outlook was followed by a Flood Watch for the western 2/3 of Middle Tennessee issued early Saturday morning. Late Saturday night and early Sunday morning the eye or center of what was left of T.S. Arlene was located over Wayne County. Several spiral bands of moderate to heavy rain moved across western Middle Tennessee mainly north of the center of the storm. During the day on Sunday the storm picked up speed and moved north along the Tennessee River into southwestern Kentucky by 1 PM CDT. Storm total precipitation for Middle Tennessee was greatest along the Tennessee River. Rainfall amounts between 1 and 3 inches were common west of I-65. There were localized areas that received greater amounts. Springfield in Robertson County reported 4.01 inches of rain and Collinwood in Wayne County reported 3.35 inches. No flooding occurred.</p>		
<p>Nashville recorded another month with below normal rainfall. The monthly total for June was 2.70 inches which was 1.38 inches below normal. For the period of May 1st through June 30th, the rainfall deficit at Nashville was just over 5 inches. There were 8 days with measurable rain during June at Nashville. The greatest amount in a 24-hour period was 1.54 inches on the 11th and 12th.</p>		
<p>The current Crop Moisture (short-term) Index shows normal moisture levels in the 5 foot soil profile across all of Middle Tennessee. The Palmer Drought (long-term) Index shows moderate drought conditions across areas of Middle Tennessee from the Tennessee River east to the Cumberland Plateau. The U.S. Drought Monitor placed a portion of the northern plateau in an area designated as abnormally dry.</p>		
<p>Hydrologic products issued: Hydrologic Outlook.....2 Flood Watch.....4 Flash Flood Warning.....9 Flash Flood Statement...6</p>		

NWS FORM E-5 (11-88) (PRES. by NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE HYDROLOGIC SERVICE AREA (HSA) Little Rock
MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS	REPORT FOR: MONTH April YEAR 2004
TO: NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283	SIGNATURE Hydrometeorological Information Center, WWOH2 Steven Bays DATE 05/03/2004

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924)

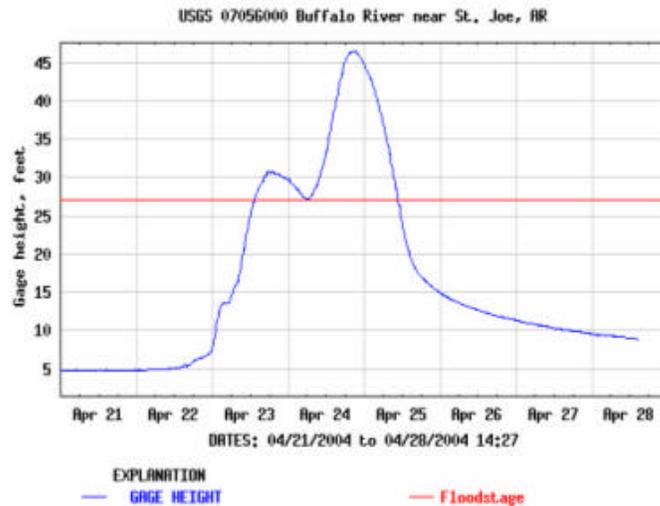
Major Flooding along the Rivers and Streams of Northern Arkansas April 2004

A series of upper level disturbances tracked across the central United States beginning Wednesday April 21st, and lasting into Saturday evening when the rainfall crossed over the Mississippi River. These multiple events dumped heavy rainfall from eastern Oklahoma to Little Rock and north into southern Missouri. Four day rainfall totals were generally from 6 to more than 12 inches for most of north Arkansas. Resulting runoff created some of the highest river levels on White River basin streams that have not been seen since the major flood of 1982. Rainfall totals for the 7 days ending Sunday April 25th at 7 am are illustrated.



The following is a list of crest and historic references...

Buffalo River near St. Joe flood stage = 25' crest 46.5'
3rd highest crest of record, highest since 1982

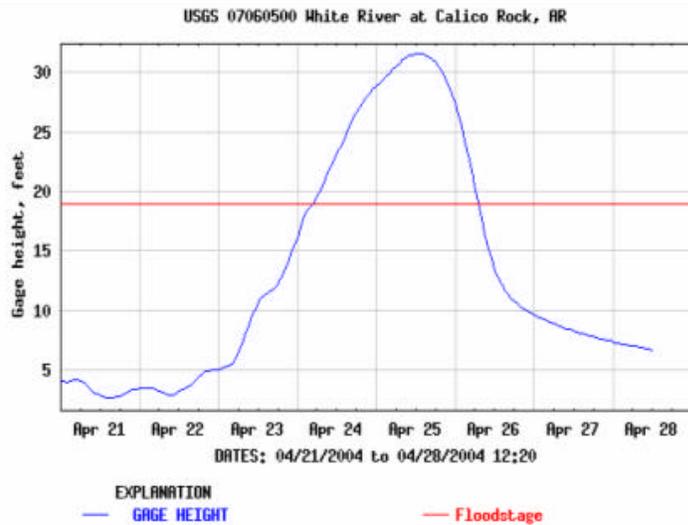


Buffalo River at Gilbert flood stage = 30' crest 47.0'
4th highest of record, highest since 1982

Buffalo River recreational facilities were flooded and damaged. Park Rangers and their families had to be evacuated from Park Service housing along the river. State highway 43 closed with a bridge washed out.

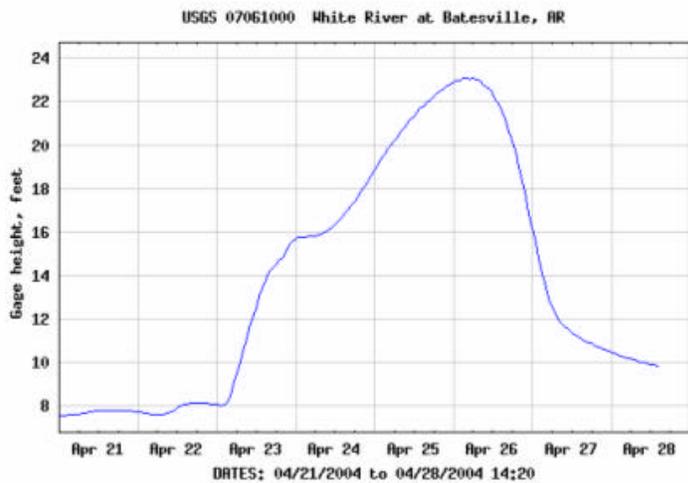
White River at Calico Rock flood stage = 19' crest 31.5'
highest since flood of 1982
2nd highest since completion of flood control reservoirs in 1954





There was substantial structural damages along the upper White River. Numerous homes and a hotel in Calico Rock were flooded. Several homes were destroyed by the force of the water combined with drift slamming into the structures. Most of the commercial fishing docks from Baxter to Stone and Izard counties received some level of damage.

White River at Batesville flood stage = 15' crest 23.1'
 highest since 1982, 3rd highest since completion of flood control reservoirs



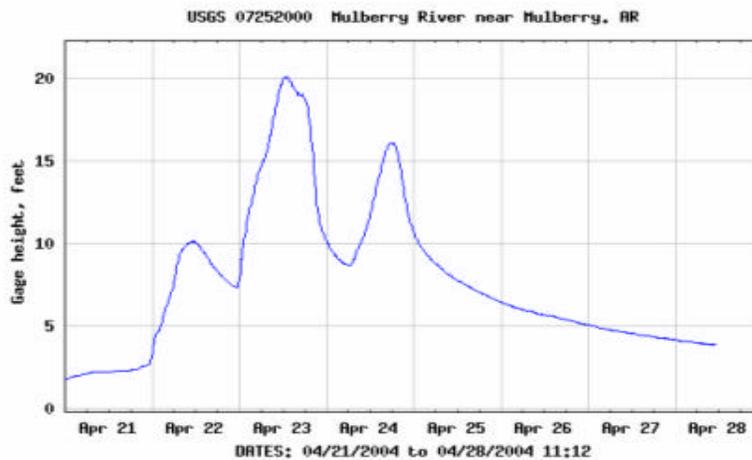
openings. The county E.M. coordinated this operation with me. I told him that the river would be several feet under the critical level. He decided to do this as a safety measure and to see how fast they could complete the task. There are over 20 openings that would require as much as 24 hours to complete the total closure. Several homes were flooded downstream in the Oil Trough community.

White River at Newport flood stage = 26' crest 29.4'
highest since 1989, 9th highest since completion of reservoirs

Widespread flooding around town but problems were primarily agricultural, road closures, and road damages.

The White River continues to rise downstream and will be the highest levels since the 1989 flood. Most damages on the downstream of Newport reach will be agricultural losses and secondary road damages. There will be a few homes and camps flooded in the Augusta area in White and Woodruff counties.

There was also minor to moderate flooding along the Arkansas, Mulberry, Petit Jean, Fourche LaFave, Black, Spring, and Eleven Point Rivers. Some campers had to be rescued along the Mulberry River. Numerous state highways were closed. Damages to county roads will be in the tens of millions of dollars statewide. The Arkansas River rose to levels not seen since 1995. Even though it was below flood stage at Pine Bluff, numerous homes were isolated when the only access road was flooded.



Cache River continues to rise and may create problems to roads and will cause many dollars in damages to agriculture.

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE HYDROLOGIC SERVICE AREA (HSA)
 (571) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 (PRES. BY NWS Instruction 10-924) NATIONAL WEATHER SERVICE Lake Charles La

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR
 February 2005

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Dates)		CREST (Feet)	
		FROM	TO	STAGE	DATE
Neches River					
Town Bluff, TX	64	02/08/05	02/28/05	66.30	02/15/05
Beaumont, TX	4	02/13/05	02/17/05	4.40	02/15/05
Pine Island Bayou					
Sour Lake, TX	25	02/09/05	02/20/05	27.04	02/14/05
Sabine River					
Bon Weir, TX	30	02/10/05	02/10/05	30.35	02/10/05
Deweyville, TX	24	02/12/05	02/20/05	24.72	02/13/05
		02/25/05	02/28/05	24.11	02/28/05
Calcasieu River					
Glenmora, LA	12	02/05/05	02/22/05	14.26	02/14/05
		02/25/05	02/28/05	12.94	02/28/05
Oberlin, LA	13	02/11/05	02/19/05	15.05	02/17/05
Kinder, LA	16	02/13/05	02/16/05	16.82	02/15/05
		02/17/05	02/19/05	16.23	02/18/05
Old Town Bay	4	02/14/05	02/21/05	5.30	02/16/05
Vermilion River					
Carencro, LA	16	02/01/05	02/04/05	18.14	02/02/05
		02/14/05	02/15/05	16.43	02/14/05
Lafayette, LA – Surrey Street	10	02/01/05	02/02/05	10.16	02/02/05
		02/13/05	02/14/05	11.51	02/14/05
Broussard Bridge	7	02/01/05	02/02/05	7.75	02/01/05
		02/13/05	02/14/05	10.11	02/14/05

1

Appendix E - Monthly Hydrologic Activities Report

September 9, 2004

MEMORANDUM FOR: Ben Weiger
Chief Hydrologic Services Branch, SRH

From: Buzz Merchlewitz
Service Hydrologist, WFO Memphis

Through: James W. Duke
MIC, WFO Memphis

Subject: Hydro Activities Report for August 2004

Field work and travel this month:

August 3: Trip with DAPM to Lexington coop site. Visited the Hatchie River forecast point at Bolivar TN to update E-19 information.

August 9-13: LMRFC/Service Hydrologist workshop in Slidell, LA

August 25: Trip to Tishomingo County MS to survey some flash flooding and visit location where a flood fatality occurred in the southern part of the county.

August 27: Trip to Minter City MS to help DAPM relocate a coop station.

August 30-September 3: Advanced Hydrologic Applications course at the NWSTC.

I spent some time updating WHFS and also trying to do some work with DamCat. I tried to do some dam break cross sections to update the Simplified Dam Break model. This is turning out to be a little more difficult than I first thought.

Met forecast shifts in August: 2